

Title (en)

METHOD OF FORMING A GREEN PART AND A MACHINING BLANK PRODUCED BY SAID METHOD

Title (de)

VERFAHREN ZUR FORMUNG EINES GRÜNKÖRPERS UND MITTELS DIESES VERFAHRENS HERGESTELLTER ROHLING

Title (fr)

PROCÉDÉ DE FORMATION D'UNE PIÈCE CRUE ET ÉBAUCHE D'USINAGE FABRIQUÉE PAR LADITE MÉTHODE

Publication

**EP 2977128 A1 20160127 (EN)**

Application

**EP 15177695 A 20150721**

Priority

- US 201462026989 P 20140721
- US 201414479738 A 20140908

Abstract (en)

A method of manufacturing a part, includes providing a green body (50) made of powder injection molding material and connected to a solid support member (26) partially contained in the green body (50). The support member (26) is engaged with a retaining fixture (54) of a machine tool (56). While supporting the green body (50) through the engagement between the support member (26) and the retaining fixture (54), the green body (50) is machined to obtain a machined green part (50'). The machined green part (50') is debound and sintered. A method of forming a powder injection molding part in a green state including machining a molded body (50) using a machine tool while supporting a blank (52) with a retaining fixture (54), and a machining blank (52) having a green body (50) and a solid support member (26) including one locating feature (58) of a pair of complementary locating features snugly engageable with one another are also discussed.

IPC 8 full level

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CPC (source: EP US)

**B22F 3/225** (2013.01 - EP US); **B22F 7/08** (2013.01 - EP US); **B28B 11/12** (2013.01 - EP US); **C04B 35/56** (2013.01 - EP US); **C04B 35/6455** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **C04B 2235/6022** (2013.01 - EP US)

C-Set (source: EP US)

**B22F 2998/10** + **B22F 3/225** + **B22F 3/162** + **B22F 3/1021**

Citation (search report)

- [X] US 2010094420 A1 20100415 - GROHOWSKI JR JOSEPH A [US]
- [A] EP 2543458 A2 20130109 - STORZ KARL IMAGING INC [US]

Cited by

CN107639232A

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

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**EP 2977128 A1 20160127**; **EP 2977128 B1 20200101**; CA 2897241 A1 20160121; CA 2897241 C 20220913; CA 3157666 A1 20160121; CA 3157666 C 20240507; US 10011044 B2 20180703; US 2016016329 A1 20160121; US 2018272562 A1 20180927

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